



**March 11, 2015**

1516 Ninth Street  
Hearing Room A  
Sacramento, California 95814

**10 a.m.**

(Wheelchair Accessible)

**THE COMMISSION WILL CONSIDER AND MAY TAKE ACTION ON THE FOLLOWING ITEMS:**

1. **CONSENT CALENDAR.** (Items on the Consent Calendar will be taken up and voted on as a group. A commissioner may request that an item be moved and discussed later in the meeting.)
  - a. **COMMUNITY POWER CORPORATION.** Proposed resolution approving Royalty Agreement ROY-13-001 with Community Power Corporation for contract 500-03-020 to memorialize and clarify the terms of the royalty calculation. Contact: Prab Sethi.
  - b. **SOUTHERN CALIFORNIA PUBLIC POWER AUTHORITY.** Possible approval of the Executive Director's recommendation that the Southern California Public Power Authority's contracts with Heber Geothermal Company, ORNI 47 LLC, and County Sanitation District No. 2 of Los Angeles County be found compliant with the Emission Performance Standard for Local Publicly Owned Electric Utilities pursuant to SB 1368 (California Code of Regulations, Title 20, Sections 2900-2913). Contact: Michael Nyberg.
  - c. **2013 NONRESIDENTIAL ALTERNATIVE CALCULATION METHOD (ACM) REFERENCE MANUAL.** Possible approval of amendments to the 2013 Nonresidential ACM Reference Manual previously approved in September 2013. Contact: Todd Ferris.
2. **ENERGY COMMISSION COMMITTEE APPOINTMENTS.** Possible approval of appointments to the Energy Commission's Standing Committees and Siting Case Committees. Contact: Kevin Barker. (Staff presentation: 5 minutes)
3. **MEMORANDUM OF UNDERSTANDING WITH THE PROVINCE OF NOORD HOLLAND.** Proposed resolution approving a working agreement between the Energy Commission and the Province of Noord Holland, The Netherlands, regarding sustainable transportation energy activities. Contact: Lezlie Kimura-Szeto. (Staff presentation: 5 minutes)
4. **CANYON POWER PLANT (CPP) (07-AFC-09C).** Proposed order granting the petition to amend the California Energy Commission decision. The proposed changes would increase the allowable usage of each of the four turbines, require additional emissions reduction credits, amend the emission factor used to demonstrate compliance with the

- PM10 emission limits and lower the allowable operation hours for the black start engine. Contact: Jonathan Fong. (Staff presentation: 10 minutes)
5. PANOCHE ENERGY CENTER (06-AFC-5C). Proposed order granting the petition to amend the California Energy Commission decision. Proposed changes include the installation of three storage tanks, ranging from 250,000 gallons to 500,000 gallons, that would temporarily store wastewater during operational periods when the net wastewater production exceeds the injection well capacity. The excess wastewater would be stored for later injection when wastewater production ceased. The proposed changes also include construction and operation of a permanent stand-by treatment system. Contact: Dale Rundquist. (Staff presentation: 10 minutes)
  6. OTAY MESA ENERGY CENTER (99-AFC-5C). Proposed order granting the petition to amend the California Energy Commission decision. The petition requests to amend Air Quality Conditions of Certification AQ-SC1, AQ-SC3, AQSC6, AQSC7, AQSC8, AQ-SC9, AQ-1 and AQ-2. Staff also proposes removing conditions of certification pertaining to commissioning and construction as well as the auxiliary boiler (since the boiler is no longer in use and will be removed from the site). Conditions of Certification AQ-3 through AQ67 would be modified and renumbered. Contact: Dale Rundquist. (Staff presentation: 10 minutes)
  7. ORDER INSTITUTING RULEMAKING (15-OIR-04). Possible adoption of an Order Instituting Rulemaking to consider changes to the Nonresidential Building Energy Use Disclosure program regulations, Title 20, California Code of Regulations, Section 1680 et seq. The rulemaking proceeding succeeds the informational proceeding held on July 2, 2014, and the pre-rulemaking workshop held on February 20, 2015. Energy Commission staff will recommend changes to the regulations to improve the efficacy of the program, and address barriers to compliance, regarding Public Resources Code section 25402.10 (Assembly Bill 1103, Saldana, Chapter 533, Statutes 2007.) Contact: Daniel Johnson. (Staff presentation: 5 minutes)
  8. ENERGY PRO V6.4. Proposed Resolution approving the EnergyPro V6.4, by Energy Soft, as an alternative calculation method for demonstrating performance compliance with the nonresidential provisions of the 2013 Building Energy Efficiency Standards, California Code of Regulations, Title 24, Part 6, and associated administrative regulations in Part 1, Chapter 10 (Standards). (Cal. Code Regs., tit. 24, §§ 10-109 (c)(2), 10-110). Contact: Todd Ferris. (Staff presentation: 5 minutes)
  9. NATIONAL ENERGY MANAGEMENT INSTITUTE COMMITTEE (13-ATTCP-01). Proposed order approving the National Energy Management Institute Committee (NEMIC) application to become an approved Nonresidential Mechanical Acceptance Test Technician Certification Provider (ATTCP) under the 2013 Building Energy Efficiency Standards, California Code of Regulations Title 24, Part 1 Chapter 10, Section 10-103-B. If approved, NEMIC will have the authority to certify Acceptance Test Technicians and Acceptance Test Employers for all acceptance tests required under the 2013 Building Energy Efficiency Standards, California Code of Regulations Title 24, Part 6, Section 120.5. Contact: Joe Loyer. (Staff presentation: 15 minutes)
  10. ORMAT NEVADA, INC. Proposed resolution approving Agreement GEO-14-004 with Ormat Nevada, Inc. for a \$631,620 grant for a project to initiate a groundwater monitoring program for the Casa Diablo IV geothermal development near Mammoth Lakes, California. Two new groundwater monitoring wells will be drilled and baseline data will be collected from those wells. A flow test will then be conducted for up to 30 days using

two existing geothermal wells, with the monitoring wells used to check for any connectivity between the shallow cold groundwater and the geothermal reservoir to be used by the Casa Diablo IV development. (GRDA funding) Contact: Cheryl Closson. (Staff presentation: 5 minutes)

11. COUNTY OF ALAMEDA. Proposed resolution approving Agreement 004-14-ECD with the County of Alameda for a \$3,000,000 loan at one percent interest to install 1,724 kW of roof-mounted photovoltaic (PV) panels at Santa Rita Jail. On completion, the project will reduce 2,859 MWh of grid electricity consumption annually saving the County about \$436,920 in utility costs. In addition, the project will reduce 986 tons of carbon dioxide equivalent (CO<sub>2</sub>e) GHG emissions every year. Based on the loan amount, the simple payback is approximately 6.9 years. (ECAA Funding.) Contact: Shahid Chaudhry. (Staff presentation: 5 minutes)
12. ESPARTO UNIFIED SCHOOL DISTRICT. Proposed resolution approving Agreement 022-14-ECG with Esparto Unified School District for a \$1,453,985 loan at zero percent interest to install 227.7 kW photovoltaic (PV) panels at three schools and energy efficient lights at various sites. On completion, the project will reduce 403.9 MWh of grid electricity consumption annually saving the District about \$91,652 in utility costs. In addition, the project will reduce 139 tons of carbon dioxide equivalent (CO<sub>2</sub>e) GHG emissions every year. Based on the loan amount, the simple payback is approximately 15.9 years. (ECAA-Ed funding.) Contact: Shahid Chaudhry. (Staff presentation: 5 minutes)
13. CALIFORNIA POLLUTION CONTROL FINANCING AUTHORITY. Proposed resolution approving Agreement 600-14-007 with California Pollution Control Financing Authority for a \$2,000,000 Interagency Agreement to develop and administer an Electric Vehicle Charging Station Financing Program. (ARVFTP funding) Contact: Larry Rillera. (Staff presentation: 5 minutes)
14. PUBLIC INTEREST ENERGY RESEARCH (PIER) 2014 ANNUAL REPORT. Proposed resolution approving the PIER 2014 Annual Report to the Legislature. Contact: Laurie ten Hope. (Staff presentation: 15 minutes)
15. DEVELOPING ADVANCED ENERGY STORAGE TECHNOLOGY SOLUTIONS TO LOWER COSTS AND ACHIEVE POLICY GOALS GRANTS, PON-13-302. This grant solicitation sought proposals for applied research and development projects to optimize grid-level energy storage deployment with respect to location, size, and type, and to develop energy storage technologies and applications to address intermittent renewables and meet peak demand. (EPIC funding) Contact: Alan Solomon. (Staff presentation: 10 minutes)
  - a. ELECTRIC POWER RESEARCH INSTITUTE, INC. Proposed resolution approving Agreement EPC-14-019 with Electric Power Research Institute, Inc. for a \$1,000,000 grant to develop a publicly available tool that assesses costs and benefits and guides the optimization of energy storage projects with respect to use, technology, size, and location.
  - b. ~~EOS ENERGY STORAGE, LLC. Proposed resolution approving Agreement EPC 14-023 with Eos Energy Storage, LLC for a \$2,156,704 grant to demonstrate an AC integrated system incorporating Eos' advanced Znyth™ zinc hybrid-cathode battery technology to advance the understanding of, opportunities for, and obstacles to their deployment in grid-connected utility applications.~~

16. **ADVANCING CLEANER, LESS COSTLY, MORE RELIABLE DISTRIBUTED GENERATION TO ENABLE CUSTOMER SOLUTIONS AND ZERO-NET ENERGY COMMUNITIES GRANTS, PON-14-303.** This grant solicitation sought proposals for applied research and development activities to increase the technical performance and value of distributed biopower and photovoltaic technologies. (EPIC funding) Contact: Prab Sethi. (Staff presentation: 10 minutes)
- a. **WEST BIOFUELS, LLC.** Proposed resolution approving Agreement EPC-14-024 with West Biofuels, LLC for a \$2,000,000 grant to develop a pilot-scale modular biomass gasification system integrated with a high-efficiency lean-burn engine in order to convert forest residues into renewable grid power. This project will reduce the cost and increase the benefits of forest fuel reduction projects in California's high fire risk regions.
  - b. **SUNFOLDING, INC.** Proposed resolution approving Agreement EPC-14-025 with Sunfolding, Inc. for a \$1,000,000 grant to develop a new solar tracker that lowers the levelized cost of solar electricity by reducing tracker component costs, improves efficiencies in construction and site design, and improves long-term reliability.
  - c. **INNOSEPPRA, LLC.** Proposed resolution approving Agreement EPC-14-028 with InnoSeptra, LLC for a \$1,318,940 grant to demonstrate its biogas upgrader technology at two California sites to determine feasibility as a biogas and landfill gas pre-treatment for combined heat and power.
  - d. **LAWRENCE BERKELEY NATIONAL LABORATORY.** Proposed resolution approving Agreement EPC-14-030 with the Department of Energy's Lawrence Berkeley National Laboratory for a \$1,500,000 grant to perform analytical research to match locally available waste biomass resources in California with grid, industrial, building power, and waste heat needs.
17. **DEMONSTRATING BIOENERGY SOLUTIONS THAT SUPPORT CALIFORNIA'S INDUSTRIES, THE ENVIRONMENT, AND THE GRID GRANTS, PON-14-305.** This grant solicitation sought proposals for technology demonstration and deployment projects to demonstrate and appraise the operational and performance characteristics of pre-commercial biomass conversion technologies, generation systems, and development strategies. (EPIC funding) Contact: Gina Barkalow. (Staff presentation: 5 minutes)
- a. **ABEC #3 LLC, DBA LAKEVIEW FARMS DAIRY BIOGAS.** Proposed resolution approving agreement EPC-14-022 with ABEC #3 LLC, dba Lakeview Farms Dairy Biogas for a \$4,000,000 grant to install and demonstrate a pre-commercial covered lagoon digester that will process dairy manure into biogas to generate renewable electricity for export to the electricity distribution grid. The project will help launch the state's first "hub-and-spoke" dairy digester cluster by preparing the 1 MW generator platform to accept 2 MWs of future capacity utilizing biogas from neighboring dairies.
  - b. **ABEC #2 LLC, DBA WEST STAR NORTH DAIRY BIOGAS.** Proposed resolution approving Agreement EPC-14-029 with ABEC #2 LLC, dba West Star North (WSN) Dairy Biogas, for a \$4,000,000 grant to install and demonstrate an innovative, double-cell covered lagoon digester and 1 MW generation system. The WSN double cell lagoon is designed to enable the quantity of wastewater to vary by time of year. The project will prepare the generator platform to add a second MW for potential IOU dispatch, as a qualified energy storage system.
18. **Minutes:** Possible approval of the February 25, 2015, Business Meeting Minutes.

19. **Lead Commissioner or Presiding Member Reports.** A Lead Commissioner on a policy matter may report to the Commission on the matter and discussion may follow. A Presiding Member on a delegated committee may report to the Commission on the matter and discussion may follow.
20. **Chief Counsel's Report:** The Energy Commission may adjourn to closed session with its legal counsel [Government Code Section 11126(e)] to discuss any of the following matters to which the Energy Commission is a party:
  - a. *Asphalt Roofing Manufacturers Association v. Energy Commission* (Third District Court of Appeal # C076990).
  - b. *In the Matter of U.S. Department of Energy (High Level Waste Repository)*, (Atomic Safety Licensing Board, CAB-04, 63-001-HLW).
  - c. *PECG v. Brown* (Alameda County Superior Court # RG10494800 [Furlough Litigation].)
  - d. *Communities for a Better Environment and Center for Biological Diversity v. Energy Commission* (Court of Appeal, First Appellate District, # A141299).
  - e. *Energy Commission v. SoloPower, Inc. and SPower, LLC.* (Sacramento County Superior Court # 34-2013-00154569)

The Energy Commission may also discuss any judicial or administrative proceeding that was formally initiated after this agenda was published; or determine whether facts and circumstances exist that warrant the initiation of litigation; or that constitute a significant exposure to litigation against the Commission.

21. **Executive Director's Report.**
22. **Public Adviser's Report.**
23. **Public Comment:** People may speak up to three minutes on any matter concerning the Energy Commission, with the exception of items appearing elsewhere on this agenda or items related to pending adjudicative (certification or enforcement) proceedings.

If you require special accommodations, contact Lourdes Quiroz at 916-654-5146, five days before the meeting.

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**Adjournment of Hearings and Meetings:** Depending upon time available and the orderly management of proceedings, the Commission may order adjournment (recess or postponement) of any noticed hearing or meeting, to be continued to the next day, another specific date or time, or to the next business meeting, as appropriate. Any such adjournment will be noticed at the time the order of adjournment is made (Government Code §§11128.5, 11129).